

MARINE SAFETY MANUAL

- 3.B.2.a (1) (cont'd) fire originating from within the electrical system. After the initial certification of a vessel or unit by the Coast Guard, subsequent plan review may be required due to electrical repairs or alterations affecting the safety of the vessel, its equipment, and crew. If considered necessary by the officer in charge, marine inspection (OCMI), drawings must be approved before work is started. Repairs to existing installations must meet the regulations in effect on the date of the original installation or the regulations in effect on the date of the repair.

- (2) General Procedures. Guidance listed in section 3.B.1.a above also applies for finding electrical system plan review guidance online.

Prior to a vessel's construction, plans such as those listed in 46 CFR 177.05 for small passenger vessels, and in 46 CFR 110.25 are reviewed. The plans listed in those sections are general in character, but include all plans that normally show construction and safety features coming under the cognizance of the Coast Guard. In the case of a particular vessel, all of the plans enumerated may not be applicable; it is intended that only those plans and specifications be submitted as will clearly show the vessel's arrangement, construction, and required equipment. Because the regulations give only a general listing of the plans and specifications that require review by the Coast Guard, "Recommendations for the Submittal of Merchant Vessel Plans and Specifications", COMDTPUB P16700.4, NVIC 8-84, was published to provide further clarification. This circular is a detailed guide on recommended plan submittal procedures. Some of the plans and specifications required by the Coast Guard are also necessary for the approval of construction by the American Bureau of Shipping (ABS) for vessels classed by that organization. In this regard, "Acceptance of Plan Review and Inspection Tasks Performed by the American Bureau of Shipping for New Construction or Major Modifications of U.S. Flag Vessels", COMDTPUB P16700.4, NVIC 10-82, CH-2, was published to provide information on ABS plan approval procedures intended to facilitate industry activities and reduce duplication of effort between the ABS and the Coast Guard.

- (3) Handling of "Existing" Vessels. The regulations do not include requirements for vessels existing before the effective date of the regulation. Persons must refer to the regulations in effect for older existing vessels in order to determine construction requirements for those vessels.

b. Plan Review Guidance.

- (1) Introduction. The intent of this section is to provide:
- (a) Check-off lists for review of typical electrical plans;
 - (b) A reference for technical data, formulas, and principles used in routine plan review;